

Please amend the application filed on even date herewith prior to proceeding with its examination.

**IN THE CLAIMS**

Please cancel claims 1-21, without prejudice or disclaimer.

5 Please add new claims 22-42, inclusive as follows:

22. (New) Device for refractive laser surgery on a target object (14) having a first laser beam source (3) with an optical output (7) for fs-impulse laser beams, a second laser beam source (4) with another optical output (9) for UV laser beams, and a shared scanner device (13) for scanning the target object (14) using fs-impulse laser beams  
10 emitted from the optical output (7) and UV laser beams emitted from the second optical output (9).

23. (New) Device as per claim 22, wherein there is at least partial overlap between one optical path followed by the fs-impulse laser beam from the optical output (7) to the shared scanner device (13), and a second optical path followed by the UV laser  
15 beam from the other optical output (9) to the shared scanner device (13), so that a shared part of the optical path is formed.

24. (New) Device as per claim 23, characterized by an optical component (10) for locking in the fs-impulse laser beam from the optical output (7) and/or the UV laser beam from the other optical output (9) into the shared part of the optical path (11).

20 25. (New) Device as per claim 23, characterized by an arrangement of safety mechanisms (22) in the region of the shared part of the optical path (11), so that manipulation of the fs-impulse laser beam and of the UV laser beam can be achieved with the aid of the safety mechanisms (22).

26. (New) Device as per claim 22, wherein the scanner device (13) contains an optical guidance mechanism for guidance both of the fs-impulse laser beam and of the UV laser beam.

27. (New) Device as per claim 22, wherein the first beam source (3) and the second laser beam source (4) are integrated into a laser beam device (1) with the optical output (30), such that the fs-impulse laser beam and the UV laser beam are emitted through the optical output (30) of the laser beam device (1).

28. (New) Device as per claim 22, characterized by a shared pumping source preferentially using diode pumps for the optical pumping of the first laser beam source (3) and the second laser beam source (4).

29. (New) Device as per claim 22, characterized by a cascaded sum frequency mixer (6) for the generation of the UV laser beam.

30. (New) Device as per claim 29, wherein the cascaded sum frequency mixer (6) is a frequency quadrupler, for instance of the type  $(\omega + \omega \rightarrow 2\omega; 2\omega + 2\omega \rightarrow 4\omega)$  or  $(\omega + \omega \rightarrow 2\omega; 2\omega + \omega \rightarrow 3\omega; 3\omega + \omega \rightarrow 4\omega)$ .

31. (New) Device as per claim 22, wherein the second laser beam source (4) is an excimer laser.

32. (New) Device as per claim 22, comprising a tracking device (16) for the tracking of a movement of the target object (14), and by the fact that the tracking device (16) is connected with the scanner device (13).

33. (New) Device as per claim 22, wherein the first laser beam source (3) is a fiber laser amplification system with impulse energies in the range of approximately a few  $\mu\text{J}$  and subsequent impulse frequencies in a range of up to 1 MHz.

34. (New) Application of a device as per claim 22 for the performing of a LASIK-procedure on an eye ("LASIK"; Laser-in-situ-Keratomileusis).

35. (New) Procedure for refractive laser surgery on a target object (14), such that an fs-impulse laser beam is produced using a first laser beam source (3) and a UV laser beam is produced using a second laser beam source (4), and such that the fs-impulse laser beam and the UV laser beam are directed across a shared scanner device (13) for scanning onto the target object (14).

36. (New) Procedure as per claim 35, wherein the fs-impulse laser beam travels along one optical path from one optical output (7) to the shared scanner device (13), by the fact that the UV laser beam travels along a second optical path from a second optical output (9) to the shared scanner device (13), and by the fact that in doing so, the fs-impulse laser beam and the UV laser beam travel at least partially along a shared optical path (11) due to the overlap between the first optical path and the second optical path.

37. (New) Procedure as per claim 35, wherein the fs-impulse laser beam emitted from the first optical output (7) and/or the UV laser beam emitted from the second optical output (9) are locked into the shared optical path (4) with the aid of the optical component (10).

38. (New) Procedure as per claim 35, wherein the fs-impulse laser beam and UV laser beam are guided with the aid of an optical guidance mechanism of the scanner device (13).

39. (New) Procedure as per claim 35, wherein the first laser beam source (3) and the second laser beam source (4) are integrated into a laser beam device with one optical output, such that the fs-impulse laser beam and the UV laser beam are emitted from the optical output of the laser beam device (1).

40. (New) Procedure as per claim 35, wherein the first laser beam source (3) and the second laser beam source (4) are optically pumped with a shared pumped light source (18).

41. (New) Procedure as per claim 35, wherein a slice of the cornea of the eye is  
5 cut by means of the fs-impulse laser beam and an eyesight correction operation is performed by means of the UV laser beam.

42. (New) Procedure as per claim 35, wherein the scanning of the target object (14) is performed with the aid of the tracking device (16) connected to the scanner device (13) for the purpose of tracking a movement of the target object (14).